

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN

WATER-QUALITY RECORDS

LOCATION.--Lat 36°17'12", long 85°56'27", Smith County, Hydrologic Unit 05130108, on right bank in powerhouse at Cordell Hull Dam, 2.7 mi north of Carthage, and at mile 313.5.

DRAINAGE AREA.--8,095 mi².

PERIOD OF RECORD.--October 1980 to September 1997, October 1999 to September 2004 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1997, October 1999 to September 2004 (discontinued).

pH: October 1990 to September 1997, October 1999 to September 2004 (discontinued).

WATER TEMPERATURE: October 1980 to September 1997, October 1999 to September 2004 (discontinued).

DISSOLVED OXYGEN: October 1980 to September 1997, October 1999 to September 2004 (discontinued).

INSTRUMENTATION.--Data collection platform and water-quality monitor.

REMARKS.--Flow regulated by Cordell Hull Dam and other reservoirs above station. Interruptions in the record were due to instrument malfunctions. All parameters affected by release from Cordell Hull Dam. Records for water temperature are good, for specific conductance are good, for pH are good, for dissolved oxygen are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 290 microsiemens, Mar. 27, 1990; minimum, 140 microsiemens, Sept. 3, 1984.

pH: Maximum, 8.9 units, Aug. 14, 29, 2002; minimum, 6.6 units, May 31, 1994, Jan. 1, 2002.

WATER TEMPERATURE: Maximum, 23.7°C, July 13, 1995 July 31, 1997; minimum, 2.0°C, Jan. 12, 15-21, 1981.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Mar. 4, 1983; minimum, 3.7 mg/L, Aug. 5, 1988.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 222 microsiemens, Jan. 12; minimum, 144 microsiemens, Feb. 7, 8.

pH: Maximum, 8.4 units, June 2, July 9, 15, Sept. 30; minimum, 7.2 units, Oct. 3, 4, 12, 13, May 23.

WATER TEMPERATURE: Maximum, 22.0°C, Sept. 15; minimum, 5.7°C, Feb. 5.

DISSOLVED OXYGEN: Maximum, 13.9 mg/L, Feb. 19.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	205	199	202	199	196	197	203	199	201	211	210	210
2	204	201	202	200	198	199	199	196	197	211	209	210
3	209	202	204	199	198	198	209	199	205	210	209	210
4	208	201	203	200	197	198	211	208	209	211	210	210
5	206	201	203	200	198	199	213	210	211	211	209	210
6	207	202	204	200	197	198	212	208	210	211	208	209
7	206	200	202	199	197	198	209	208	208	211	208	210
8	203	200	201	199	197	198	209	206	207	215	211	213
9	202	199	200	201	197	199	209	206	207	218	214	216
10	203	199	201	202	195	199	210	207	209	219	216	218
11	205	199	201	198	195	196	210	208	209	221	218	220
12	203	195	198	198	196	196	209	207	207	222	218	219
13	203	195	197	201	195	197	209	207	208	219	217	218
14	198	195	196	200	197	198	211	207	209	220	217	218
15	198	194	195	202	198	200	216	210	213	220	217	218
16	195	194	194	205	201	202	217	214	216	219	216	217
17	197	194	195	205	202	203	218	214	215	216	214	215
18	199	194	195	205	202	203	215	213	214	220	212	213
19	200	194	195	204	203	204	214	213	214	212	207	210
20	201	194	196	206	204	205	215	214	214	209	206	208
21	200	195	196	210	206	207	216	215	216	209	206	207
22	201	196	197	216	210	214	217	215	216	209	207	208
23	199	196	197	218	210	214	216	214	215	209	206	207
24	199	195	196	212	208	209	215	210	213	212	209	211
25	198	195	196	210	208	209	210	210	210	216	209	211
26	198	193	195	209	207	208	211	210	211	211	209	210
27	198	193	194	211	207	208	214	211	213	213	209	211
28	196	194	194	211	207	209	215	214	214	211	209	210
29	201	193	195	208	205	206	215	212	214	211	209	210
30	197	194	195	206	200	203	213	212	212	212	209	211
31	198	194	195	---	---	---	212	211	211	214	210	211
MONTH	209	193	198	218	195	202	218	196	211	222	206	212

CUMBERLAND RIVER BASIN

73

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY				MARCH				APRIL			
1	213	210	211	196	193	195	191	187	188	196	194	195
2	217	211	213	196	193	195	190	187	188	196	191	192
3	215	212	214	195	193	194	190	186	188	192	189	191
4	216	214	215	197	193	195	190	187	188	190	188	189
5	216	211	214	197	194	195	194	189	191	188	186	187
6	215	161	200	202	196	199	195	191	193	187	185	186
7	161	144	149	204	193	201	194	190	192	190	185	187
8	149	144	146	193	173	180	192	188	190	191	189	190
9	177	149	161	180	176	178	193	186	189	192	190	191
10	196	177	188	190	175	182	192	185	188	192	188	190
11	202	196	199	195	190	193	192	185	186	189	187	187
12	203	201	202	195	193	194	193	183	186	187	186	186
13	202	200	201	195	193	194	185	182	183	188	185	186
14	201	199	200	195	193	194	183	182	183	187	184	185
15	201	199	200	195	193	194	187	183	185	187	183	184
16	200	198	199	195	192	194	186	184	185	186	184	185
17	199	197	198	194	193	193	187	184	186	187	184	185
18	198	195	197	193	192	193	190	187	188	187	184	186
19	198	196	197	194	192	193	195	190	192	187	185	186
20	199	197	198	195	193	194	199	195	197	188	185	186
21	200	198	198	195	192	193	199	196	197	187	184	185
22	198	196	198	194	193	193	199	193	195	186	184	185
23	198	195	197	194	193	194	193	190	191	188	185	186
24	197	195	196	196	193	194	---	---	---	187	184	185
25	199	196	197	198	194	196	---	---	---	189	185	187
26	197	195	196	199	193	196	177	169	174	190	188	189
27	197	195	196	196	190	193	173	167	169	191	190	190
28	201	195	196	194	190	191	180	173	176	191	190	191
29	198	194	195	193	191	192	188	180	183	192	190	191
30	---	---	---	193	190	191	195	187	191	196	190	192
31	---	---	---	191	189	189	---	---	---	192	188	189
MONTH	217	144	196	204	173	193	199	167	187	196	183	188
	JUNE				JULY				AUGUST			
1	190	188	189	184	182	182	200	193	197	192	189	190
2	192	190	191	184	182	182	204	199	201	193	190	191
3	194	191	192	186	182	183	201	196	198	195	189	191
4	198	190	192	185	182	183	198	196	197	191	189	190
5	191	189	190	187	183	184	198	194	196	195	190	192
6	192	191	192	186	183	184	195	191	193	199	190	194
7	193	189	191	185	183	183	196	190	193	201	193	197
8	191	187	188	186	182	183	198	193	195	204	199	201
9	191	186	187	187	183	184	202	196	198	206	197	202
10	193	186	188	188	183	184	204	198	200	208	197	204
11	195	188	190	187	183	184	203	199	201	207	198	203
12	198	188	191	187	184	185	204	199	202	208	200	204
13	194	187	191	188	185	186	203	199	202	209	198	205
14	196	187	191	188	186	187	206	199	201	209	199	205
15	192	186	189	190	187	188	204	198	200	209	199	204
16	191	186	188	190	187	188	202	197	199	209	200	205
17	191	185	187	190	186	188	202	196	199	208	199	204
18	188	183	185	190	187	188	205	197	199	206	193	200
19	188	182	185	192	188	189	200	194	198	203	194	199
20	189	181	184	192	187	190	202	195	198	204	199	202
21	185	181	183	196	190	192	200	195	198	203	197	201
22	185	182	183	197	189	193	202	195	198	205	198	202
23	185	182	183	195	192	194	203	193	197	201	196	198
24	190	182	184	195	192	193	198	193	195	197	192	194
25	188	182	183	197	193	194	198	193	195	201	197	198
26	186	182	183	198	194	196	196	188	191	204	199	202
27	185	182	183	195	193	194	190	188	188	205	204	204
28	185	181	182	196	192	194	191	188	189	206	201	203
29	184	180	181	194	192	193	192	190	190	202	200	201
30	184	180	182	193	191	192	191	189	190	204	199	201
31	---	---	---	194	192	193	192	189	190	---	---	---
MONTH	198	180	187	198	182	188	206	188	196	209	189	200

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.3	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.8	7.8	7.8
2	7.5	7.4	7.4	7.3	7.6	7.5	7.9	7.9	7.9	7.8	7.8	7.7
3	7.5	7.2	7.4	7.3	7.5	7.5	7.9	7.9	7.9	7.9	7.8	7.7
4	7.6	7.2	7.4	7.3	7.5	7.5	7.9	7.9	8.0	7.9	7.8	7.7
5	7.6	7.4	7.5	7.3	7.6	7.5	7.9	7.9	8.0	7.9	7.8	7.7
6	7.5	7.3	7.4	7.4	7.6	7.5	7.9	7.9	7.9	7.7	7.8	7.7
7	7.6	7.4	7.4	7.3	7.7	7.5	7.9	7.9	7.7	7.6	7.7	7.6
8	7.6	7.5	7.4	7.4	7.7	7.7	8.0	7.8	7.6	7.6	7.6	7.5
9	7.5	7.4	7.5	7.4	7.7	7.7	8.1	8.0	7.7	7.6	7.5	7.5
10	7.5	7.4	7.6	7.4	7.7	7.7	8.1	8.0	7.7	7.7	7.5	7.5
11	7.4	7.3	7.5	7.5	7.8	7.7	8.2	8.1	7.8	7.7	7.6	7.5
12	7.4	7.2	7.5	7.5	7.8	7.7	8.2	8.1	7.8	7.8	7.6	7.5
13	7.4	7.2	7.6	7.5	7.8	7.7	8.1	8.0	7.8	7.8	7.5	7.5
14	7.3	7.3	7.6	7.5	7.8	7.7	8.1	8.0	7.8	7.8	7.5	7.5
15	7.4	7.3	7.6	7.6	7.7	7.7	8.1	8.1	7.8	7.8	7.6	7.5
16	7.4	7.3	7.6	7.5	7.8	7.7	8.1	8.0	7.8	7.8	7.6	7.6
17	7.4	7.3	7.6	7.5	7.8	7.7	8.0	8.0	7.8	7.8	7.7	7.5
18	7.4	7.3	7.6	7.5	7.9	7.8	8.0	8.0	7.8	7.8	7.8	7.7
19	7.3	7.3	7.6	7.6	7.9	7.9	8.0	8.0	7.9	7.8	7.8	7.7
20	7.3	7.3	7.6	7.6	7.9	7.9	8.0	8.0	7.9	7.8	7.9	7.8
21	7.3	7.3	7.6	7.6	7.9	7.9	8.0	7.9	7.9	7.8	8.0	7.8
22	7.4	7.3	7.6	7.6	7.9	7.9	8.0	7.9	7.9	7.8	8.0	7.9
23	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.8	7.8	7.8	8.0	7.9
24	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.8	7.8	7.8	8.0	7.9
25	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.9	7.8	7.8	8.0	7.9
26	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.9	7.8	7.8	8.0	7.8
27	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.9	7.8	7.8	8.1	7.9
28	7.3	7.3	7.6	7.6	7.9	7.9	7.9	7.9	7.8	7.8	8.2	7.8
29	7.3	7.3	7.6	7.6	7.9	7.9	7.9	7.9	7.8	7.8	8.1	7.9
30	7.4	7.3	7.6	7.6	7.9	7.9	7.9	7.8	---	---	8.2	7.9
31	7.4	7.3	---	---	7.9	7.9	7.8	7.8	---	---	8.2	8.0
MONTH	7.6	7.2	7.6	7.3	7.9	7.5	8.2	7.8	8.0	7.6	8.2	7.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.1	7.9	7.9	7.7	8.0	7.8	7.8	7.6	7.9	7.7	7.9	7.6
2	8.1	7.9	7.9	7.7	8.4	7.7	8.0	7.6	7.8	7.5	7.8	7.6
3	8.1	7.8	8.0	7.6	8.3	7.7	8.3	7.6	7.8	7.5	7.8	7.6
4	8.0	7.8	7.8	7.7	8.3	7.6	8.1	7.7	8.1	7.5	7.7	7.5
5	8.2	7.9	7.8	7.7	7.9	7.7	8.0	7.6	8.0	7.5	7.8	7.5
6	8.2	7.9	7.9	7.7	8.0	7.6	8.2	7.6	8.0	7.5	8.0	7.5
7	8.2	8.0	7.8	7.7	8.0	7.6	8.1	7.7	8.1	7.5	7.8	7.5
8	8.1	8.0	7.9	7.8	8.0	7.6	8.3	7.7	7.9	7.4	7.6	7.5
9	8.3	7.9	7.9	7.8	7.7	7.5	8.4	7.7	8.2	7.4	7.8	7.5
10	8.3	8.0	7.8	7.7	7.8	7.3	8.2	7.8	8.3	7.5	7.9	7.6
11	8.1	7.8	7.8	7.7	7.8	7.5	8.2	7.8	8.1	7.5	7.8	7.6
12	8.1	7.8	7.9	7.7	7.8	7.5	8.2	7.7	8.1	7.8	7.9	7.6
13	8.0	7.9	7.8	7.7	7.7	7.6	8.2	7.8	7.8	7.6	8.2	7.6
14	7.9	7.9	7.7	7.6	7.7	7.6	8.3	7.7	7.7	7.3	8.2	7.6
15	7.9	7.8	7.7	7.3	7.8	7.6	8.4	7.7	7.7	7.3	8.2	7.6
16	7.8	7.8	8.0	7.6	7.9	7.6	8.1	7.7	7.6	7.3	8.0	7.6
17	7.8	7.8	8.0	7.4	7.6	7.5	8.1	7.7	7.6	7.3	7.9	7.7
18	7.8	7.8	8.0	7.5	7.7	7.6	8.1	7.6	7.7	7.3	7.8	7.7
19	7.8	7.8	7.9	7.4	7.7	7.6	8.2	7.6	7.7	7.4	7.7	7.7
20	8.0	7.8	7.9	7.3	7.9	7.6	8.2	7.6	7.6	7.4	7.9	7.7
21	8.0	7.8	7.9	7.3	8.0	7.5	8.2	7.6	7.6	7.4	8.0	7.6
22	8.2	7.6	7.8	7.4	8.0	7.6	8.1	7.6	7.6	7.4	8.2	7.7
23	8.0	7.8	7.9	7.2	7.8	7.6	8.1	7.5	7.6	7.4	8.2	7.8
24	---	---	7.8	7.5	8.2	7.4	8.2	7.5	7.6	7.4	8.3	7.7
25	---	---	8.0	7.3	7.9	7.6	8.1	7.5	7.6	7.4	8.3	7.8
26	7.7	7.6	7.8	7.6	7.8	7.5	7.8	7.4	7.7	7.5	8.0	7.6
27	7.6	7.6	7.9	7.6	8.0	7.5	7.8	7.5	7.7	7.6	8.0	7.6
28	7.7	7.6	7.8	7.6	7.9	7.5	8.1	7.4	7.8	7.6	7.8	7.4
29	7.7	7.6	8.0	7.6	7.8	7.5	8.0	7.3	7.8	7.6	8.2	7.4
30	7.8	7.6	8.1	7.6	7.8	7.5	8.1	7.3	7.7	7.6	8.4	8.1
31	---	---	8.1	7.7	---	---	8.0	7.5	7.9	7.6	---	---
MONTH	8.3	7.6	8.1	7.2	8.4	7.3	8.4	7.3	8.3	7.3	8.4	7.4

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.2	18.7	19.0	17.1	16.9	17.0	12.5	11.9	12.3	9.5	9.2	9.3
2	18.7	18.3	18.6	17.3	16.9	17.1	11.9	11.5	11.6	9.7	9.5	9.6
3	18.3	18.0	18.2	17.4	17.0	17.2	11.6	11.4	11.5	10.0	9.6	9.8
4	18.3	17.9	18.2	17.4	17.1	17.3	11.8	11.4	11.6	10.8	10.0	10.4
5	17.9	17.8	17.8	17.8	17.4	17.5	11.8	11.6	11.7	10.9	10.8	10.9
6	17.8	17.6	17.7	17.6	17.4	17.6	11.6	11.4	11.5	10.9	10.2	10.6
7	18.0	17.6	17.7	17.4	17.1	17.3	11.5	11.3	11.4	10.2	9.8	10.0
8	18.0	17.6	17.7	17.1	16.6	16.9	11.7	11.3	11.5	9.8	9.3	9.6
9	17.9	17.7	17.8	16.6	16.2	16.5	11.8	11.6	11.7	9.3	8.7	9.1
10	18.1	17.8	18.0	16.4	16.0	16.2	11.8	11.5	11.7	8.7	7.9	8.3
11	18.4	18.0	18.2	16.1	16.0	16.1	11.5	11.2	11.4	7.9	7.3	7.5
12	18.4	18.2	18.3	16.1	15.7	16.0	11.2	10.9	11.1	7.3	6.8	7.0
13	18.6	18.3	18.4	15.8	15.1	15.5	10.9	10.6	10.7	6.8	6.6	6.7
14	18.6	18.3	18.5	15.1	14.8	14.9	10.6	10.4	10.5	7.0	6.6	6.8
15	18.3	18.1	18.2	14.8	14.6	14.7	10.5	10.2	10.3	7.1	6.8	7.0
16	18.2	18.0	18.1	14.7	14.5	14.6	10.3	9.8	10.1	7.2	6.9	7.0
17	18.1	17.8	17.9	15.1	14.4	14.6	9.8	9.4	9.6	7.5	7.1	7.3
18	17.8	17.5	17.7	14.7	14.4	14.6	9.4	9.2	9.3	7.8	7.5	7.7
19	17.5	17.2	17.4	14.6	14.4	14.4	9.2	8.9	9.1	7.7	7.4	7.6
20	17.8	17.2	17.4	14.7	14.5	14.6	8.9	8.6	8.8	7.4	7.2	7.3
21	17.4	17.1	17.2	14.6	14.3	14.4	8.8	8.6	8.7	7.3	7.2	7.2
22	17.6	17.0	17.2	15.0	14.5	14.7	8.7	8.5	8.6	7.2	6.7	7.0
23	17.4	16.9	17.2	15.1	14.7	15.0	8.8	8.6	8.7	6.8	6.4	6.6
24	17.5	17.0	17.2	15.1	14.3	14.7	8.8	8.6	8.7	6.5	6.2	6.3
25	17.5	17.2	17.4	14.3	14.0	14.1	8.9	8.7	8.8	6.6	6.3	6.5
MONTH	19.2	16.5	17.7	17.8	12.5	15.4	12.5	8.5	10.1	10.9	6.2	7.9
	FEBRUARY			MARCH			APRIL			MAY		
1	6.5	6.2	6.4	7.3	7.2	7.2	11.2	10.8	11.1	14.5	14.1	14.3
2	6.5	6.3	6.3	7.8	7.3	7.6	11.0	10.5	10.7	14.1	13.6	13.8
3	6.3	6.0	6.1	7.9	7.7	7.8	11.0	10.4	10.7	13.6	12.8	13.3
4	6.0	5.8	6.0	8.6	7.9	8.2	11.3	10.6	10.8	13.1	12.5	12.8
5	6.0	5.7	5.9	8.9	8.4	8.6	11.3	10.6	10.9	13.1	12.8	12.9
6	6.5	6.0	6.4	9.7	8.9	9.4	11.3	10.7	10.9	14.0	12.8	13.3
7	7.1	6.5	6.9	10.0	9.6	9.8	11.3	10.8	11.0	13.8	12.9	13.4
8	6.9	6.8	6.9	10.7	10.0	10.4	11.4	10.9	11.1	14.2	13.6	13.9
9	6.9	6.8	6.8	10.6	10.0	10.3	12.0	11.0	11.4	14.6	13.9	14.2
10	6.8	6.7	6.8	10.0	8.8	9.5	11.9	11.5	11.7	14.4	14.1	14.3
11	6.7	6.6	6.7	8.8	7.9	8.2	11.7	11.4	11.6	14.6	14.2	14.3
12	7.0	6.7	6.8	7.9	7.4	7.5	11.5	11.2	11.4	15.2	14.2	14.6
13	6.9	6.7	6.8	7.6	7.1	7.4	11.2	10.5	10.9	14.9	14.3	14.6
14	6.8	6.6	6.7	7.6	7.4	7.5	10.5	9.9	10.0	15.0	14.2	14.6
15	6.7	6.3	6.5	7.9	7.6	7.7	10.4	9.7	10.0	14.9	14.3	14.7
16	6.3	6.0	6.1	8.1	7.9	8.0	11.2	10.2	10.5	16.0	14.7	15.0
17	6.2	6.1	6.2	8.3	8.0	8.1	11.4	10.6	11.0	16.4	14.7	15.2
18	6.3	6.1	6.2	8.7	8.2	8.4	12.4	11.4	11.9	16.7	14.7	15.6
19	6.6	6.2	6.4	9.2	8.6	8.9	12.9	12.2	12.5	16.4	15.0	15.7
20	6.8	6.5	6.6	9.5	9.1	9.3	13.5	12.8	13.1	17.2	14.8	16.0
21	7.0	6.7	6.8	9.4	9.2	9.4	13.4	13.2	13.3	16.9	14.9	15.8
22	7.2	6.8	6.9	9.2	8.9	9.1	13.8	13.1	13.3	16.1	15.1	15.6
23	7.1	6.9	7.0	9.2	8.9	9.0	13.2	12.6	12.9	16.8	15.1	15.7
24	7.2	7.0	7.1	9.5	9.0	9.2	---	---	---	17.3	15.4	16.2
25	7.1	6.8	7.0	9.8	9.2	9.5	---	---	---	17.8	15.7	16.3
26	6.9	6.6	6.8	9.8	9.5	9.7	13.0	12.4	12.6	17.6	15.7	16.7
27	6.8	6.6	6.7	10.3	9.5	9.9	13.8	13.0	13.5	18.1	16.0	16.8
28	7.1	6.7	6.9	11.0	10.0	10.5	14.4	13.5	13.9	18.3	16.6	17.3
29	7.3	7.0	7.1	11.2	10.8	10.9	14.3	13.9	14.1	20.4	17.3	18.0
30	---	---	---	11.6	11.1	11.3	14.5	14.1	14.2	21.3	17.8	19.1
31	---	---	---	11.5	11.2	11.3	---	---	---	21.0	18.8	20.1
MONTH	7.3	5.7	6.6	11.6	7.1	9.0	14.5	9.7	11.8	21.3	12.5	15.3

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.1	19.0	19.4	17.9	16.6	17.3	19.9	18.6	19.1	20.2	19.1	19.4
2	19.7	18.3	18.9	18.9	16.8	17.5	19.3	18.2	18.8	20.2	19.2	19.5
3	19.0	18.0	18.6	20.0	16.8	18.1	18.8	18.0	18.3	20.3	19.1	19.7
4	18.7	17.6	18.2	19.7	16.8	17.9	20.2	17.9	18.5	20.1	19.4	19.6
5	17.9	17.6	17.8	19.6	16.9	18.1	20.2	18.2	19.0	20.6	19.4	19.7
6	17.9	17.2	17.6	20.0	17.1	18.5	21.2	19.0	19.8	20.8	19.2	19.6
7	17.2	16.4	16.8	20.1	18.1	19.3	21.4	19.9	20.4	20.5	19.1	19.6
8	16.9	15.6	16.2	20.6	18.2	19.4	21.3	20.0	20.4	19.4	18.7	19.0
9	16.5	15.9	16.3	21.1	18.6	19.5	21.5	19.9	20.6	20.2	18.9	19.4
10	16.9	15.8	16.3	20.6	18.8	19.5	21.4	19.6	20.6	20.8	19.0	19.6
11	16.6	15.8	16.2	20.4	18.9	19.3	20.8	19.3	20.1	20.4	19.3	19.7
12	17.1	15.7	16.3	20.2	18.5	19.1	20.6	19.3	20.0	20.8	19.4	20.0
13	16.6	15.9	16.2	20.3	18.5	19.2	19.3	18.5	19.0	21.7	19.6	20.4
14	16.4	16.0	16.2	20.7	18.1	19.3	18.5	17.8	18.2	21.9	19.9	21.0
15	16.8	16.0	16.4	21.0	18.2	19.3	18.2	17.5	17.8	22.0	20.0	20.9
16	17.1	16.0	16.5	20.6	18.6	19.3	17.9	17.3	17.6	21.6	20.3	20.8
17	16.4	16.0	16.2	20.4	18.8	19.4	17.8	17.3	17.6	21.1	20.1	20.4
18	16.9	16.2	16.4	20.2	18.4	19.1	18.0	17.3	17.7	20.3	19.7	20.1
19	16.9	16.1	16.5	20.3	18.3	19.0	18.2	17.7	17.9	19.7	19.3	19.6
20	17.3	16.1	16.7	20.7	18.2	19.3	18.1	17.9	18.1	19.9	19.1	19.4
21	17.7	16.0	16.8	20.8	18.3	19.2	18.2	18.0	18.1	20.0	19.2	19.5
22	18.3	16.3	17.0	20.5	18.0	19.0	18.4	17.9	18.2	20.4	19.4	19.7
23	17.4	16.2	16.9	20.5	17.8	18.9	18.5	18.1	18.3	20.2	19.6	20.0
24	18.6	16.4	17.4	20.5	18.4	19.4	18.6	18.2	18.4	20.5	19.6	20.1
25	18.3	16.6	17.5	20.4	18.5	19.1	18.7	18.3	18.5	21.0	19.8	20.3
26	17.8	16.9	17.3	19.5	18.3	18.6	18.9	18.4	18.7	20.6	19.6	20.1
27	18.7	17.1	17.7	19.7	18.1	18.7	19.2	18.5	18.9	20.7	19.8	20.2
28	18.3	17.2	17.7	20.3	18.3	19.0	20.0	18.8	19.2	20.3	19.9	20.1
29	18.4	17.1	17.6	20.1	18.0	18.6	19.7	18.8	19.0	20.1	19.8	20.0
30	17.8	16.9	17.3	20.7	18.0	18.7	19.4	18.8	18.9	20.0	19.6	19.8
31	---	---	---	20.7	17.9	19.0	20.1	18.6	19.4	---	---	---
MONTH	20.1	15.6	17.1	21.1	16.6	18.9	21.5	17.3	18.9	22.0	18.7	19.9

CUMBERLAND RIVER BASIN

77

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.4	6.2	7.9	8.0	7.4	7.8	---	---	---	12.0	11.7	11.9
2	8.6	7.2	8.1	8.0	7.4	7.7	10.0	9.8	9.8	11.8	11.6	11.8
3	8.4	6.1	7.9	7.9	7.4	7.7	9.8	9.6	9.7	11.8	11.6	11.7
4	8.7	5.3	8.0	7.9	7.2	7.6	10.0	9.6	9.8	11.7	11.4	11.5
5	8.7	6.8	8.3	7.9	7.0	7.7	10.0	9.7	9.9	11.5	11.1	11.3
6	8.6	5.5	8.1	7.7	7.2	7.5	10.1	9.8	10	11.2	10.9	11.1
7	8.9	6.6	8.3	7.7	7.3	7.6	10.2	9.9	10.0	11.0	10.8	10.9
8	8.9	8.3	8.7	7.7	7.3	7.6	10.2	9.9	10.1	10.9	10.7	10.8
9	8.5	7.6	8.3	8.1	7.2	7.7	10.0	9.9	9.9	---	---	---
10	8.1	7.3	7.8	8.1	7.5	7.8	10.2	9.9	10.0	---	---	---
11	7.7	4.3	7.1	8.0	7.5	7.8	10.4	10.1	10.3	---	---	---
12	7.9	5.4	7.4	8.1	7.7	8.0	10.5	10.2	10.4	11.4	10.6	10.8
13	7.6	5.3	7.1	8.3	7.8	8.1	10.5	10.2	10.4	11.2	10.7	11.0
14	7.2	6.6	7.1	8.7	8.1	8.4	10.5	10.2	10.4	11.5	11.1	11.3
15	7.3	6.0	7.1	8.7	7.8	8.5	10.5	10.4	10.5	11.7	11.3	11.6
16	7.6	7.1	7.3	8.4	7.7	8.2	10.8	10.4	10.6	11.9	11.6	11.8
17	7.5	7.2	7.3	8.5	7.8	8.2	11.0	10.6	10.8	12.0	11.8	11.9
18	7.4	6.8	7.2	8.7	8.1	8.4	11.2	10.9	11.1	12.1	11.7	12.0
19	7.4	7.1	7.3	8.9	8.6	8.7	11.2	11.2	11.2	12.2	11.9	12.0
20	7.7	6.8	7.1	8.9	8.5	8.7	11.3	11.1	11.2	12.3	11.7	12.0
21	7.7	7.1	7.4	8.6	8.4	8.5	11.4	11.2	11.3	12.3	11.5	11.9
22	8.0	7.2	7.5	8.6	8.4	8.5	11.4	11.3	11.3	12.3	11.2	11.8
23	7.9	7.2	7.6	---	---	---	11.6	11.3	11.4	12.6	11.2	11.9
24	7.9	7.2	7.6	---	---	---	11.4	11.3	11.4	12.7	11.6	12.2
25	8.0	7.0	7.6	---	---	---	11.6	11.3	11.5	13.0	11.2	12.2
MONTH	8.9	4.3	7.6	8.9	7.0	8.0	11.7	9.6	10.7	13.0	10.6	11.6
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.0	12.8	12.9	12.8	12.3	12.6	10.1	9.2	9.7
2	---	---	---	13.0	12.9	12.9	12.7	12.0	12.5	10.2	9.6	10
3	13.4	13.2	13.3	13.0	12.8	12.9	12.7	12.0	12.4	10.8	9.5	10.0
4	13.6	13.3	13.5	13.1	12.8	12.9	12.6	12.0	12.4	10.7	10.0	10.1
5	13.7	13.2	13.6	12.9	12.7	12.8	12.9	12.1	12.6	10.6	10.1	10.3
6	13.7	12.9	13.3	12.7	12.1	12.3	13.2	11.8	12.7	10.8	10.2	10.5
7	12.9	12.6	12.7	12.1	11.7	11.9	13.2	12.5	12.8	10.7	10.3	10.5
8	12.7	12.6	12.6	11.7	11.1	11.3	13.2	12.8	13.0	10.8	10.4	10.6
9	13.8	12.6	12.7	11.2	11.1	11.2	13.2	10.6	12.8	11.1	10.7	10.8
10	12.8	12.6	12.7	11.8	11.2	11.4	13.4	11.8	12.9	11.5	10.6	10.8
11	13.1	12.8	13.0	12.4	11.8	12.1	13.0	11.4	12.8	11.0	10.7	10.9
12	13.1	12.9	13.0	12.5	12.3	12.4	12.7	9.9	12.1	11.7	10.7	11.0
13	13.2	13.0	13.2	12.7	12.5	12.6	13.0	11.8	12.5	11.2	10.5	11.0
14	13.3	13.2	13.2	12.8	12.7	12.7	12.8	11.7	12.1	11.1	10.6	10.9
15	13.2	13.1	13.2	12.8	12.7	12.8	12.4	11.3	11.6	11.1	8.3	10.7
16	13.2	13.1	13.2	12.8	12.7	12.8	11.3	11.1	11.2	11.9	10.9	11.2
17	13.1	13.1	13.1	12.8	12.4	12.7	11.1	10.8	11.0	11.8	10.2	11.2
18	13.1	13.1	13.1	12.5	12.4	12.4	10.9	10.6	10.8	11.8	10.0	11.0
19	13.9	13.0	13.1	12.6	12.4	12.5	11.2	10.6	10.9	11.7	10.2	11.0
20	13.0	12.9	13.0	12.8	12.4	12.6	11.7	10.9	11.2	11.6	9.8	11.0
21	12.9	12.8	12.9	12.6	12.4	12.6	11.5	10.8	11.1	11.6	8.8	10.9
22	12.9	12.7	12.8	12.6	12.4	12.5	11.8	10.3	11.1	11.4	10.6	11.0
23	12.8	12.4	12.7	12.8	12.4	12.7	11.1	10.9	10.9	11.6	9.2	10.9
24	12.5	12.3	12.3	12.7	12.4	12.6	10.9	10.7	10.8	11.4	10.0	10.8
25	13.4	12.5	12.7	12.9	12.3	12.7	---	---	---	11.5	9.8	10.5
26	12.8	12.7	12.8	13.1	12.4	12.9	11.9	9.2	9.7	10.8	9.8	10.3
27	12.9	12.7	12.8	13.5	12.6	13.1	10.6	8.9	9.2	10.6	9.8	10.1
28	12.9	12.8	12.8	13.6	12.8	13.2	10.0	8.8	9.1	10.0	9.6	9.8
29	13.0	12.6	12.9	13.3	12.7	13.1	10.0	9.0	9.2	10.0	9.4	9.7
30	---	---	---	13.2	12.6	13.0	12.8	9.6	9.3	9.6	6.6	9.1
31	---	---	---	13.0	12.6	12.8	---	---	---	9.6	9.1	9.3
MONTH	13.9	12.3	13.0	13.6	11.1	12.6	13.4	8.8	11.5	11.9	6.6	10.5

CUMBERLAND RIVER BASIN

03418420 CUMBERLAND RIVER BELOW CORDELL HULL DAM, TN—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.8	9.4	9.6	8.6	8.0	8.2	9.6	8.5	9.0	9.1	7.7	8.0
2	10.7	9.1	9.7	8.9	7.8	8.2	9.3	4.6	8.0	8.7	7.0	7.8
3	10.9	9.1	10	9.3	7.2	8.4	9.6	6.4	8.2	9.0	7.0	8.0
4	11.0	9.3	10.3	9.0	7.9	8.3	10.2	6.1	7.9	8.3	7.2	7.5
5	10.4	9.8	9.9	8.9	7.1	8.2	9.5	4.8	7.4	9.0	6.7	7.4
6	10.9	9.6	10.2	9.1	7.9	8.4	9.2	4.5	7.1	9.4	6.9	7.6
7	11.1	10.0	10.6	9.0	8.1	8.5	9.5	4.3	6.6	8.8	6.2	7.6
8	11.1	9.8	10.5	9.5	8.1	8.7	9.2	3.0	6.3	8.0	6.9	7.4
9	10.3	9.3	9.9	10.0	8.2	8.8	10.1	2.2	7.2	9.5	6.4	7.7
10	10.6	9.0	10	9.7	8.4	9.0	10.6	3.3	7.9	8.8	7.2	7.6
11	10.7	9.6	10.2	9.6	8.5	8.9	10.1	3.8	8.0	8.6	7.1	7.6
12	10.6	9.8	10.2	9.9	8.1	8.9	9.8	8.4	9.2	8.8	7.2	7.7
13	10.3	7.9	10.0	9.4	8.6	8.9	8.9	5.9	7.4	9.9	6.7	8.0
14	---	---	---	9.5	8.1	8.8	9.0	2.1	7.8	9.7	7.3	8.4
15	---	---	---	10.0	7.9	8.8	9.0	2.3	7.6	9.9	6.9	8.2
16	---	---	---	9.6	8.3	8.8	9.4	3.5	8.3	9.1	7.4	8.2
17	---	---	---	9.7	8.5	9.0	9.3	4.8	8.2	8.8	8.0	8.4
18	---	---	---	9.6	8.1	8.9	9.3	4.2	8.1	8.5	8.1	8.3
19	---	---	---	10.1	8.4	9.1	10.4	6.9	8.4	8.3	8.0	8.2
20	---	---	---	10.2	7.9	9.1	8.6	5.0	7.9	9.5	8.0	8.4
21	---	---	---	10.4	7.5	8.9	8.3	5.0	7.4	10.3	7.9	8.8
22	12.4	10.9	11.6	10.3	7.4	8.8	7.9	3.6	7.0	10.8	7.2	9.1
23	13.4	11.4	12.4	10.1	6.2	8.6	8.2	5.0	7.3	10.8	8.3	9.7
24	13.6	11.3	12.6	10.4	6.7	9.0	8.1	4.9	7.4	11.3	7.9	10.0
25	11.9	10.5	11.2	10.5	6.9	8.9	8.3	4.9	7.4	11.5	8.4	9.9
26	---	---	---	9.2	8.0	8.5	8.1	6.2	7.7	9.4	7.2	8.4
27	---	---	---	9.0	7.8	8.3	8.1	7.2	7.7	9.8	6.4	8.6
28	---	---	---	9.8	5.8	7.8	8.7	7.4	7.9	9.1	7.7	8.6
29	---	---	---	10.0	6.3	8.1	8.8	7.5	7.9	12.1	7.4	10.4
30	8.7	8.2	8.4	9.7	6.8	7.9	9.2	7.5	7.8	11.6	10.4	10.9
31	---	---	---	9.6	7.1	8.2	9.4	7.3	8.2	---	---	---
MONTH	13.6	7.9	10.4	10.5	5.8	8.6	10.6	2.1	7.7	12.1	6.2	8.4

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